SEQUENCE LISTING

<110> Jiang, Cai-Zhong

<120> Method for Modifying Plant Biomass

<130> MBI-0034

<160> 8

<170> PatentIn version 3.0

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ccc acc ggt gga gcc acc agc tca gcc aca gcc tct ggc tct tcc tcc      157
Pro Thr Gly Gly Ala Thr Ser Ser Ala Thr Ala Ser Gly Ser Ser Ser
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gga cgt cgt cca cgt ggt cgt cct gca ggt tcc aaa aac aaa ccc aaa      205
Gly Arg Arg Pro Arg Gly Arg Pro Ala Gly Ser Lys Asn Lys Pro Lys
        35                  40                  45

cct ccg acg att ata act aga gat agt cct aac gtc ctt aga tca cac      253
Pro Pro Thr Ile Ile Thr Arg Asp Ser Pro Asn Val Leu Arg Ser His
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Val Leu Glu Val Thr Ser Gly Ser Asp Ile Ser Glu Ala Val Ser Thr
65                  70                  75                  80

tac gcc act cgt cgc ggc tgc ggc gtt tgc att ata agc ggc acg ggt      349
Tyr Ala Thr Arg Arg Gly Cys Gly Val Cys Ile Ile Ser Gly Thr Gly
                85                  90                  95

gcg gtc act aac gtc acg ata cgg caa cct gcg gct ccg gct ggt gga      397
Ala Val Thr Asn Val Thr Ile Arg Gln Pro Ala Ala Pro Ala Gly Gly
            100                 105                 110

ggt gtg att acc ctg cat ggt cgg ttt gac att ttg tct ttg acc ggt      445
Gly Val Ile Thr Leu His Gly Arg Phe Asp Ile Leu Ser Leu Thr Gly
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act gcg ctt cca ccg cct gca cca ccg gga gca gga ggt ttg acg gtg      493
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tat cta gcc gga ggt caa gga caa gtt gta gga ggg aat gtg gct ggt      541
Tyr Leu Ala Gly Gly Gln Gly Gln Val Val Gly Gly Asn Val Ala Gly
145                 150                 155                 160

tcg tta att gct tcg gga ccg gta gtg ttg atg gct gct tct ttt gca      589
Ser Leu Ile Ala Ser Gly Pro Val Val Leu Met Ala Ala Ser Phe Ala
                165                 170                 175

aac gca gtt tat gat agg tta ccg att gaa gag gaa gaa acc cca ccg      637
Asn Ala Val Tyr Asp Arg Leu Pro Ile Glu Glu Glu Glu Thr Pro Pro
            180                 185                 190

ccg aga acc acc ggg gtg cag cag cag cag ccg gag gcg tct cag tcg      685
Pro Arg Thr Thr Gly Val Gln Gln Gln Gln Pro Glu Ala Ser Gln Ser
        195                 200                 205

tcg gag gtt acg ggg agt ggg gcc cag gcg tgt gag tca aac ctc caa      733
Ser Glu Val Thr Gly Ser Gly Ala Gln Ala Cys Glu Ser Asn Leu Gln
    210                 215                 220

ggt gga aat ggt gga gga ggt gtt gct ttc tac aat ctt gga atg aat      781
Gly Gly Asn Gly Gly Gly Gly Val Ala Phe Tyr Asn Leu Gly Met Asn
225                 230                 235                 240

atg aac aat ttt caa ttc tcc ggg gga gat att tac ggt atg agc ggc      829
Met Asn Asn Phe Gln Phe Ser Gly Gly Asp Ile Tyr Gly Met Ser Gly
                245                 250                 255

ggt agc gga gga ggt ggt ggc ggt gcg act aga ccc gcg ttt tag          874
Gly Ser Gly Gly Gly Gly Gly Gly Ala Thr Arg Pro Ala Phe
            260                 265                 270

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Gly Arg Arg Pro Arg Gly Arg Pro Ala Gly Ser Lys Asn Lys Pro Lys
        35                  40                  45
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Pro Pro Thr Ile Ile Thr Arg Asp Ser Pro Asn Val Leu Arg Ser His
    50                  55                  60

Val Leu Glu Val Thr Ser Gly Ser Asp Ile Ser Glu Ala Val Ser Thr
65                  70                  75                  80

Tyr Ala Thr Arg Arg Gly Cys Gly Val Cys Ile Ile Ser Gly Thr Gly
                85                  90                  95

Ala Val Thr Asn Val Thr Ile Arg Gln Pro Ala Ala Pro Ala Gly Gly
            100                 105                 110

Gly Val Ile Thr Leu His Gly Arg Phe Asp Ile Leu Ser Leu Thr Gly
        115                 120                 125

Thr Ala Leu Pro Pro Pro Ala Pro Pro Gly Ala Gly Gly Leu Thr Val
    130                 135                 140

Tyr Leu Ala Gly Gly Gln Gly Gln Val Val Gly Gly Asn Val Ala Gly
145                 150                 155                 160

Ser Leu Ile Ala Ser Gly Pro Val Val Leu Met Ala Ala Ser Phe Ala
                165                 170                 175

Asn Ala Val Tyr Asp Arg Leu Pro Ile Glu Glu Glu Glu Thr Pro Pro
            180                 185                 190

Pro Arg Thr Thr Gly Val Gln Gln Gln Gln Pro Glu Ala Ser Gln Ser
        195                 200                 205

Ser Glu Val Thr Gly Ser Gly Ala Gln Ala Cys Glu Ser Asn Leu Gln
    210                 215                 220

Gly Gly Asn Gly Gly Gly Gly Val Ala Phe Tyr Asn Leu Gly Met Asn
225                 230                 235                 240

Met Asn Asn Phe Gln Phe Ser Gly Gly Asp Ile Tyr Gly Met Ser Gly
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Gly Ser Gly Gly Gly Gly Gly Gly Ala Thr Arg Pro Ala Phe
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                        Met Asp Glu Val Ser Arg Ser His Thr Pro
                        1               5                   10

caa ttt cta tca agt gat cat cag cac tat cac cat caa aac gct gga      159
Gln Phe Leu Ser Ser Asp His Gln His Tyr His His Gln Asn Ala Gly
                15                  20                  25

cga caa aaa cgc ggc aga gaa gaa gaa gga gtt gaa ccc aac aat ata      207
Arg Gln Lys Arg Gly Arg Glu Glu Glu Gly Val Glu Pro Asn Asn Ile
            30                  35                  40

ggg gaa gac cta gcc acc ttt cct tcc gga gaa gag aat atc aag aag      255
Gly Glu Asp Leu Ala Thr Phe Pro Ser Gly Glu Glu Asn Ile Lys Lys
        45                  50                  55

aga agg cca cgt ggc aga cct gct ggt tcc aag aac aaa ccc aaa gca      303
Arg Arg Pro Arg Gly Arg Pro Ala Gly Ser Lys Asn Lys Pro Lys Ala
    60                  65                  70

cca atc ata gtc act cgc gac tcc gcg aac gcc ttc aga tgt cac gtc      351
Pro Ile Ile Val Thr Arg Asp Ser Ala Asn Ala Phe Arg Cys His Val
75                  80                  85                  90

atg gag ata acc aac gcc tgc gat gta atg gaa agc cta gcc gtc ttc      399
Met Glu Ile Thr Asn Ala Cys Asp Val Met Glu Ser Leu Ala Val Phe
                95                  100                 105

gct aga cgc cgt cag cgt ggc gtt tgc gtc ttg acc gga aac ggg gcc      447
Ala Arg Arg Arg Gln Arg Gly Val Cys Val Leu Thr Gly Asn Gly Ala
            110                 115                 120

gtt aca aac gtc acc gtt aga caa cct ggc gga ggc gtc gtc agt tta      495
Val Thr Asn Val Thr Val Arg Gln Pro Gly Gly Gly Val Val Ser Leu
        125                 130                 135

cac gga cgg ttt gag att ctt tct ctc tcg ggt tcg ttt ctt cct cca      543
His Gly Arg Phe Glu Ile Leu Ser Leu Ser Gly Ser Phe Leu Pro Pro
    140                 145                 150

ccg gca cca cca gct gcg tct ggt tta aag gtt tac tta gcc ggt ggt      591
Pro Ala Pro Pro Ala Ala Ser Gly Leu Lys Val Tyr Leu Ala Gly Gly
155                 160                 165                 170

caa ggt caa gtg atc gga ggc agt gtg gtg gga ccg ctt acg gca tca      639
Gln Gly Gln Val Ile Gly Gly Ser Val Val Gly Pro Leu Thr Ala Ser
                175                 180                 185
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agt ccg gtg gtc gtt atg gca gct tca ttt gga aac gca tct tac gag      687
Ser Pro Val Val Val Met Ala Ala Ser Phe Gly Asn Ala Ser Tyr Glu
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agg ctg cca cta gag gag gag gag gaa act gaa aga gaa ata gat gga      735
Arg Leu Pro Leu Glu Glu Glu Glu Glu Thr Glu Arg Glu Ile Asp Gly
        205                 210                 215

aac gcg gct agg gcg att gga acg caa acg cag aaa cag tta atg caa      783
Asn Ala Ala Arg Ala Ile Gly Thr Gln Thr Gln Lys Gln Leu Met Gln
    220                 225                 230

gat gcg aca tcg ttt att ggg tcg ccg tcg aat tta att aac tct gtt      831
Asp Ala Thr Ser Phe Ile Gly Ser Pro Ser Asn Leu Ile Asn Ser Val
235                 240                 245                 250

tcg ttg cca ggt gaa gct tat tgg gga acg caa cga ccg tct ttc taa      879
Ser Leu Pro Gly Glu Ala Tyr Trp Gly Thr Gln Arg Pro Ser Phe
                255                 260                 265

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            20                  25                  30

Glu Glu Glu Gly Val Glu Pro Asn Asn Ile Gly Glu Asp Leu Ala Thr
        35                  40                  45

Phe Pro Ser Gly Glu Glu Asn Ile Lys Lys Arg Arg Pro Arg Gly Arg
    50                  55                  60

Pro Ala Gly Ser Lys Asn Lys Pro Lys Ala Pro Ile Ile Val Thr Arg
65                  70                  75                  80

Asp Ser Ala Asn Ala Phe Arg Cys His Val Met Glu Ile Thr Asn Ala
                85                  90                  95

Cys Asp Val Met Glu Ser Leu Ala Val Phe Ala Arg Arg Arg Gln Arg
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Gly Val Cys Val Leu Thr Gly Asn Gly Ala Val Thr Asn Val Thr Val
115 120 125

Arg Gln Pro Gly Gly Gly Val Val Ser Leu His Gly Arg Phe Glu Ile
130 135 140

Leu Ser Leu Ser Gly Ser Phe Leu Pro Pro Pro Ala Pro Pro Ala Ala
145 150 155 160

Ser Gly Leu Lys Val Tyr Leu Ala Gly Gly Gln Gly Gln Val Ile Gly
165 170 175

Gly Ser Val Val Gly Pro Leu Thr Ala Ser Ser Pro Val Val Val Met
180 185 190

Ala Ala Ser Phe Gly Asn Ala Ser Tyr Glu Arg Leu Pro Leu Glu Glu
195 200 205

Glu Glu Glu Thr Glu Arg Glu Ile Asp Gly Asn Ala Ala Arg Ala Ile
210 215 220

Gly Thr Gln Thr Gln Lys Gln Leu Met Gln Asp Ala Thr Ser Phe Ile
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aaacaaag atg aaa ggt gaa tac aga gag caa aag agt aac gaa atg ttt     230
         Met Lys Gly Glu Tyr Arg Glu Gln Lys Ser Asn Glu Met Phe
         1               5                   10

tcc aag ctt cct cat cat caa caa caa cag caa caa caa caa caa caa      278
Ser Lys Leu Pro His His Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
15                  20                  25                  30

cac tct ctt acc tct cac ttc cac ctc tcc tcc acc gta acc ccc acc      326
His Ser Leu Thr Ser His Phe His Leu Ser Ser Thr Val Thr Pro Thr
                35                  40                  45

gtc gat gac tcc tcc atc gaa gtg gtc cga cgt cca cgt ggc aga cca      374
Val Asp Asp Ser Ser Ile Glu Val Val Arg Arg Pro Arg Gly Arg Pro
            50                  55                  60

cca ggt tcc aaa aac aaa cct aaa cca ccc gtc ttc gtc aca cgt gac      422
Pro Gly Ser Lys Asn Lys Pro Lys Pro Pro Val Phe Val Thr Arg Asp
        65                  70                  75

acc gac cct cct atg agt cct tac atc ctc gaa gtt cct tca gga aac      470
Thr Asp Pro Pro Met Ser Pro Tyr Ile Leu Glu Val Pro Ser Gly Asn
    80                  85                  90

gac gtc gtc gaa gcc atc aac cgt ttc tgc cgc cgt aaa tcc atc gga      518
Asp Val Val Glu Ala Ile Asn Arg Phe Cys Arg Arg Lys Ser Ile Gly
95                  100                 105                 110

gtc tgc gtc ctt agt ggc tct ggc tct gta gct aac gtc act tta cgt      566
Val Cys Val Leu Ser Gly Ser Gly Ser Val Ala Asn Val Thr Leu Arg
                115                 120                 125

cag cca tca ccg gca gct ctt ggc tct acc ata act ttc cat gga aag      614
Gln Pro Ser Pro Ala Ala Leu Gly Ser Thr Ile Thr Phe His Gly Lys
            130                 135                 140

ttt gat ctc ctc tcc gtc tcc gca acg ttt ctc cct cct ccg cct cgt      662
Phe Asp Leu Leu Ser Val Ser Ala Thr Phe Leu Pro Pro Pro Pro Arg
        145                 150                 155

act tcc ttg tct cct ccc gtt tct aac ttc ttc acc gtc tct ctc gct      710
Thr Ser Leu Ser Pro Pro Val Ser Asn Phe Phe Thr Val Ser Leu Ala
    160                 165                 170

gga cct caa gga caa atc atc gga ggg ttc gtc gct ggt cca ctt att      758
Gly Pro Gln Gly Gln Ile Ile Gly Gly Phe Val Ala Gly Pro Leu Ile
175                 180                 185                 190

tcg gca gga aca gtt tac gtc atc gcc gca agt ttc aac aac cct tct      806
Ser Ala Gly Thr Val Tyr Val Ile Ala Ala Ser Phe Asn Asn Pro Ser
                195                 200                 205

tat cac cgg tta ccg gcg gaa gaa gag caa aaa cac tcg gcg ggg aca      854
Tyr His Arg Leu Pro Ala Glu Glu Glu Gln Lys His Ser Ala Gly Thr
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ggg gaa aga gag gga caa tct ccg ccg gtc tct ggt ggc ggt gaa gag      902
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Gly Glu Arg Glu Gly Gln Ser Pro Pro Val Ser Gly Gly Gly Glu Glu
225 230 235

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240 245 250

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Tyr Ser Cys His Met Gly Gly Ser Asp Val Ile Trp Ala Pro Thr Ala
255 260 265 270

aga gct cca ccg cca tac taa ccaatccttc tttcacaaat ctctttcttt 1049
Arg Ala Pro Pro Pro Tyr
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35 40 45

Asp Ser Ser Ile Glu Val Val Arg Arg Pro Arg Gly Arg Pro Pro Gly
50 55 60

Ser Lys Asn Lys Pro Lys Pro Pro Val Phe Val Thr Arg Asp Thr Asp
65 70 75 80

Pro Pro Met Ser Pro Tyr Ile Leu Glu Val Pro Ser Gly Asn Asp Val
85 90 95

Val Glu Ala Ile Asn Arg Phe Cys Arg Arg Lys Ser Ile Gly Val Cys
100 105 110

Val Leu Ser Gly Ser Gly Ser Val Ala Asn Val Thr Leu Arg Gln Pro
115 120 125

Ser Pro Ala Ala Leu Gly Ser Thr Ile Thr Phe His Gly Lys Phe Asp
130 135 140

Leu Leu Ser Val Ser Ala Thr Phe Leu Pro Pro Pro Arg Thr Ser
145 150 155 160

Leu Ser Pro Pro Val Ser Asn Phe Phe Thr Val Ser Leu Ala Gly Pro
165 170 175

Gln Gly Gln Ile Ile Gly Gly Phe Val Ala Gly Pro Leu Ile Ser Ala
180 185 190

Gly Thr Val Tyr Val Ile Ala Ala Ser Phe Asn Asn Pro Ser Tyr His
195 200 205

Arg Leu Pro Ala Glu Glu Glu Gln Lys His Ser Ala Gly Thr Gly Glu
210 215 220

Arg Glu Gly Gln Ser Pro Pro Val Ser Gly Gly Gly Glu Glu Ser Gly
225 230 235 240

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Pro Pro Pro Tyr
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Met Leu Ser Lys Leu Pro Thr Gln Arg His Leu His Leu Ser Pro
1 5 10 15

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ggt tcc aaa aac aaa cct aaa gct cca atc ttt gtc acc att gac cct      203
Gly Ser Lys Asn Lys Pro Lys Ala Pro Ile Phe Val Thr Ile Asp Pro
            35                  40                  45

cct atg agt cct tac atc ctc gaa gtg cca tcc gga aac gat gtc gtt      251
Pro Met Ser Pro Tyr Ile Leu Glu Val Pro Ser Gly Asn Asp Val Val
        50                  55                  60

gaa gcc cta aac cgt ttc tgc cgc ggt aaa gcc atc ggc ttt tgc gtc      299
Glu Ala Leu Asn Arg Phe Cys Arg Gly Lys Ala Ile Gly Phe Cys Val
    65                  70                  75

ctc agt ggc tca ggc tcc gtt gct gat gtc act ttg cgt cag cct tct      347
Leu Ser Gly Ser Gly Ser Val Ala Asp Val Thr Leu Arg Gln Pro Ser
80                  85                  90                  95

ccg gca gct cct ggc tca acc att act ttc cac gga aag ttc gat ctt      395
Pro Ala Ala Pro Gly Ser Thr Ile Thr Phe His Gly Lys Phe Asp Leu
                100                 105                 110

ctc tct gtc tcc gcc act ttc ctc cct cct cta cct cct acc tcc ttg      443
Leu Ser Val Ser Ala Thr Phe Leu Pro Pro Leu Pro Pro Thr Ser Leu
            115                 120                 125

tcc cct ccc gtc tcc aat ttc ttc acc gtc tct ctc gcc gga cct cag      491
Ser Pro Pro Val Ser Asn Phe Phe Thr Val Ser Leu Ala Gly Pro Gln
        130                 135                 140

ggg aaa gtc atc ggt gga ttc gtc gct ggt cct ctc gtt gcc gcc gga      539
Gly Lys Val Ile Gly Gly Phe Val Ala Gly Pro Leu Val Ala Ala Gly
    145                 150                 155

act gtt tac ttc gtc gcc act agt ttc aag aac cct tcc tat cac cgg      587
Thr Val Tyr Phe Val Ala Thr Ser Phe Lys Asn Pro Ser Tyr His Arg
160                 165                 170                 175

tta cct gct acg gag gaa gag caa aga aac tcg gcg gaa ggg gaa gag      635
Leu Pro Ala Thr Glu Glu Glu Gln Arg Asn Ser Ala Glu Gly Glu Glu
                180                 185                 190

gag gga caa tcg ccg ccg gtc tct gga ggt ggt gga gag tcg atg tac      683
Glu Gly Gln Ser Pro Pro Val Ser Gly Gly Gly Gly Glu Ser Met Tyr
            195                 200                 205

gtg ggt ggc tct gat gtc att tgg gat ccc aac gcc aaa gct cca tcg      731
Val Gly Gly Ser Asp Val Ile Trp Asp Pro Asn Ala Lys Ala Pro Ser
        210                 215                 220

ccg tac tga ccacaaatcc atctcgttca aactagggtt tcttcttctt              780
Pro Tyr
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actcactctt taatctctct atcacttctt ctttagcttt ttctgcagtg tcaaacttca    900
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Ser Lys Asn Lys Pro Lys Ala Pro Ile Phe Val Thr Ile Asp Pro Pro
35 40 45

Met Ser Pro Tyr Ile Leu Glu Val Pro Ser Gly Asn Asp Val Val Glu
50 55 60

Ala Leu Asn Arg Phe Cys Arg Gly Lys Ala Ile Gly Phe Cys Val Leu
65 70 75 80

Ser Gly Ser Gly Ser Val Ala Asp Val Thr Leu Arg Gln Pro Ser Pro
85 90 95

Ala Ala Pro Gly Ser Thr Ile Thr Phe His Gly Lys Phe Asp Leu Leu
100 105 110

Ser Val Ser Ala Thr Phe Leu Pro Pro Leu Pro Pro Thr Ser Leu Ser
115 120 125

Pro Pro Val Ser Asn Phe Phe Thr Val Ser Leu Ala Gly Pro Gln Gly
130 135 140

Lys Val Ile Gly Gly Phe Val Ala Gly Pro Leu Val Ala Ala Gly Thr
145 150 155 160

Val Tyr Phe Val Ala Thr Ser Phe Lys Asn Pro Ser Tyr His Arg Leu
165 170 175

Pro Ala Thr Glu Glu Glu Gln Arg Asn Ser Ala Glu Gly Glu Glu Glu

180 185 190

Gly Gln Ser Pro Pro Val Ser Gly Gly Gly Gly Glu Ser Met Tyr Val
195 200 205

Gly Gly Ser Asp Val Ile Trp Asp Pro Asn Ala Lys Ala Pro Ser Pro
210 215 220

Tyr
225